



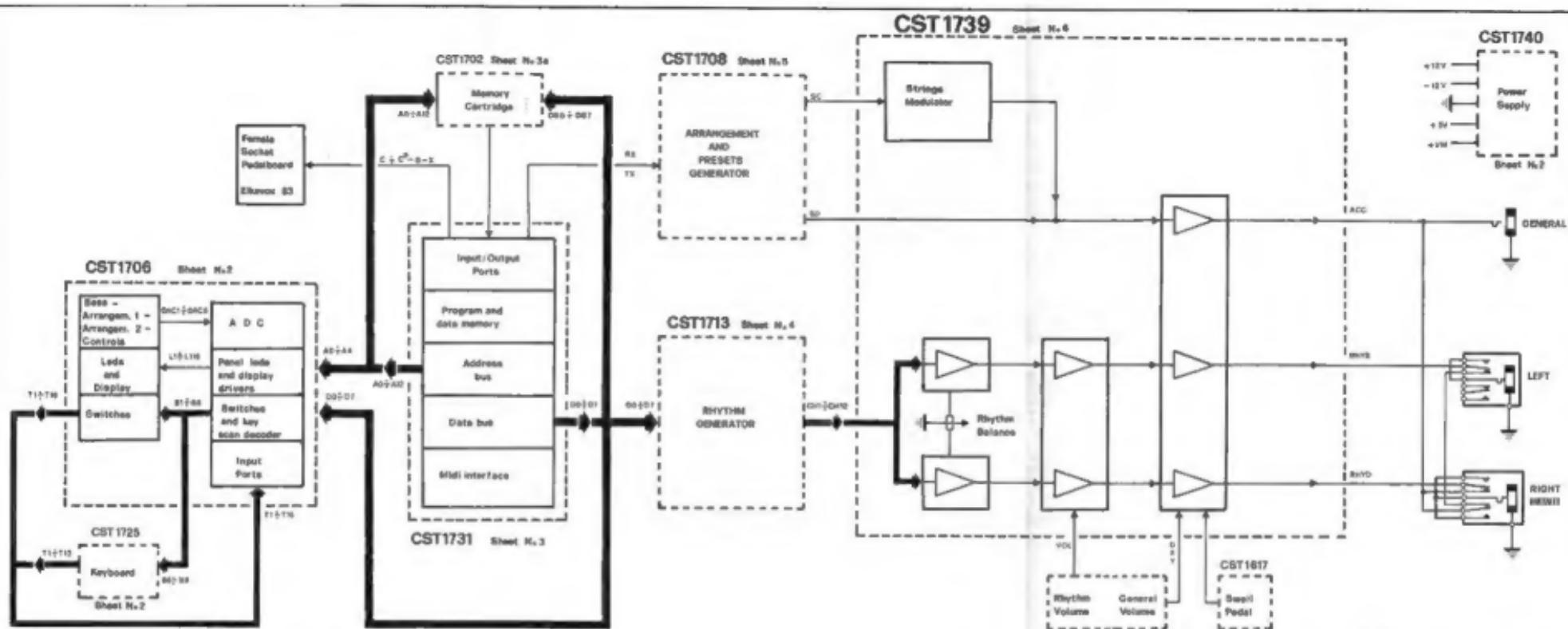
Professional
ELKA

OMB 5

DIGITAL AND PROGRAMMABLE
ACCOMPANIMENT UNIT



schematic diagrams



1) ALL resistors are carbon film 1/4w 5%

2) ALL resistors marked by a point must be metal film 2%

3) ALL capacitors marked by a point must be plastic film 2%

4) ALL resistors must be mounted 10mm above board

5) ALL resistors must be mounted 10mm above board and non-flammable

6) All capacitors marked by asterisks must be ceramic

7) All capacitors marked by a square must be tantalum

8) All capacitors marked by a square must be electrolytic no polarized

GND analogic

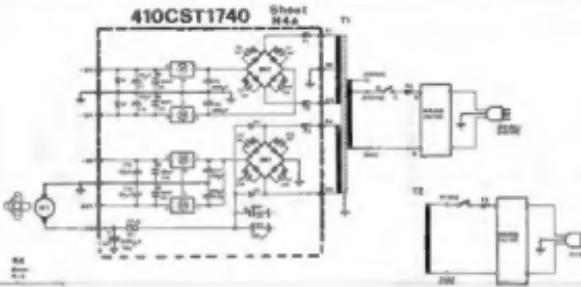
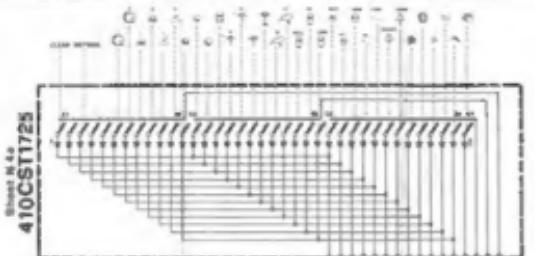
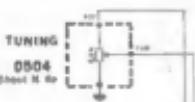
GND logic

ALL diodes are:
FDH 9439 Fairchild
or 125 ITT
or BA 130
or 2pF

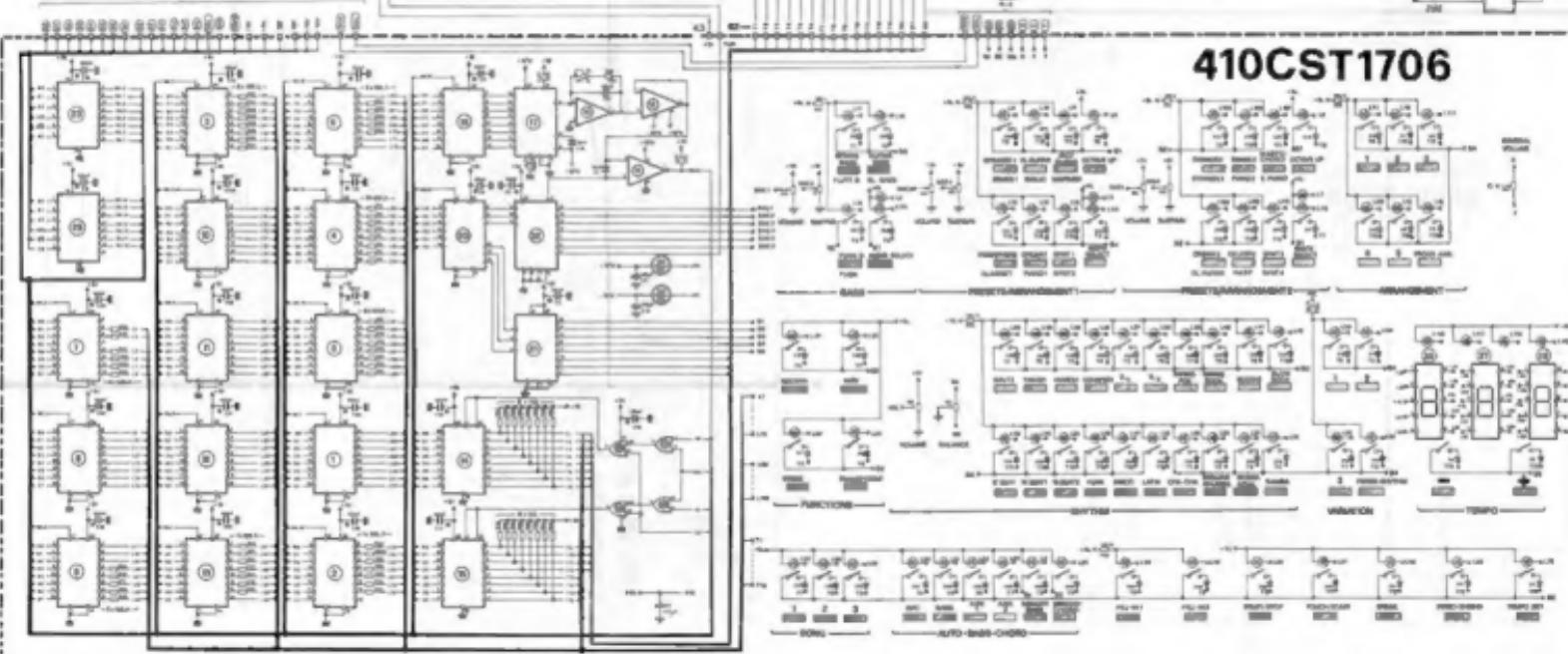
The numbers in brackets (8770R ...) represent the ELKA codes of the assembled boards whilst the others represent the ELKA codes of the non-assembled boards

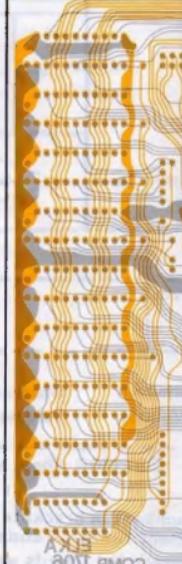
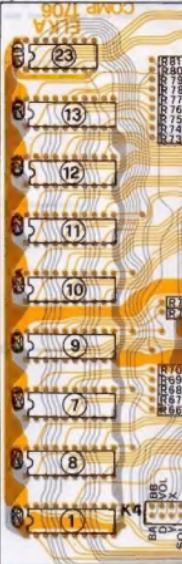
The tensions are measured when the instrument is turned on but not played

The firm reserves the right to make changes without any warning and to their own discretion



410CST1706





Power

Sub. Unit 2

ARMAMENT
AND
POWER
GENERATOR

C511042 Sub. Unit 2

Power

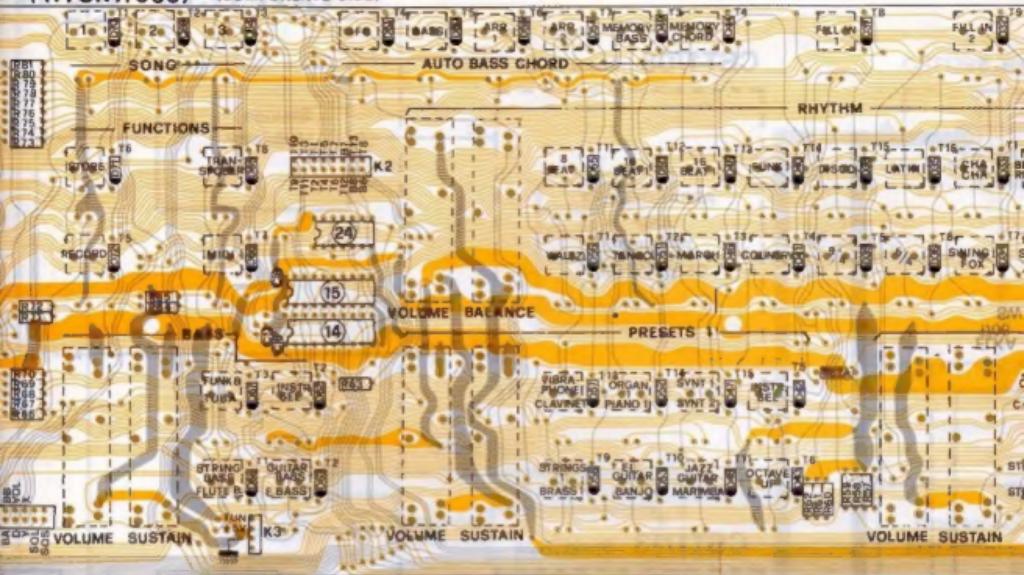
THREE
DRAFT

ARMAMENT
AND
POWER
GENERATOR

C511043

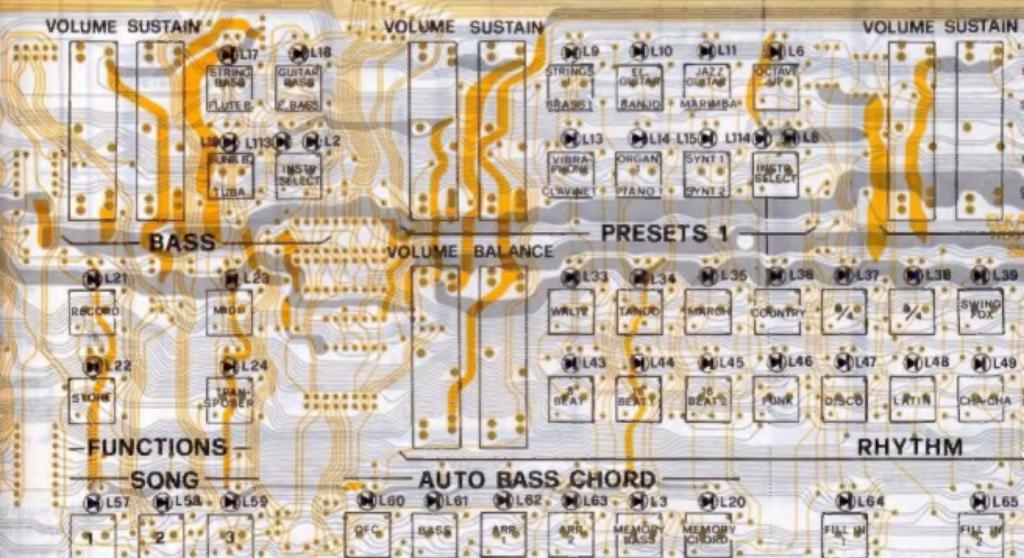
(477GR17060)

(477GR17060) (COMPONENTS SIDE)

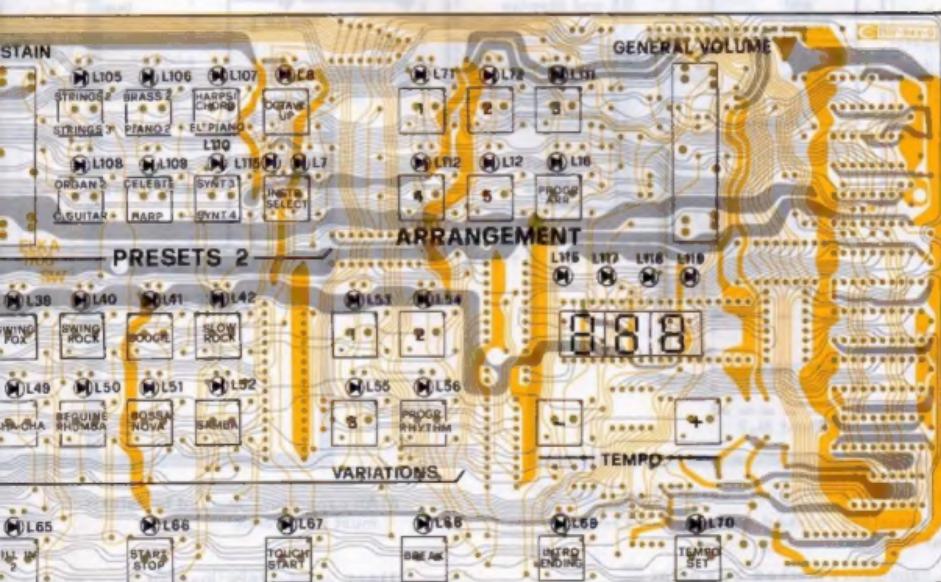
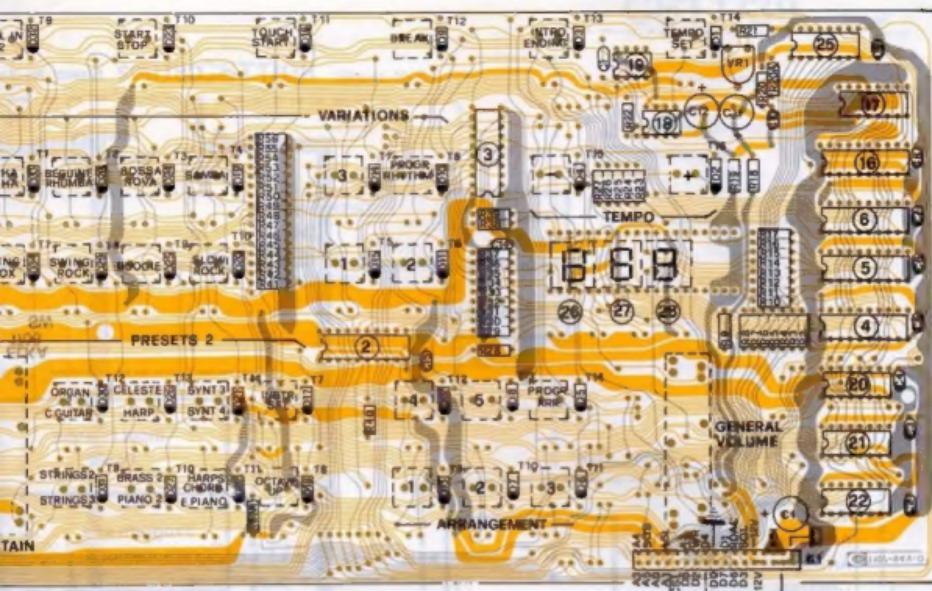


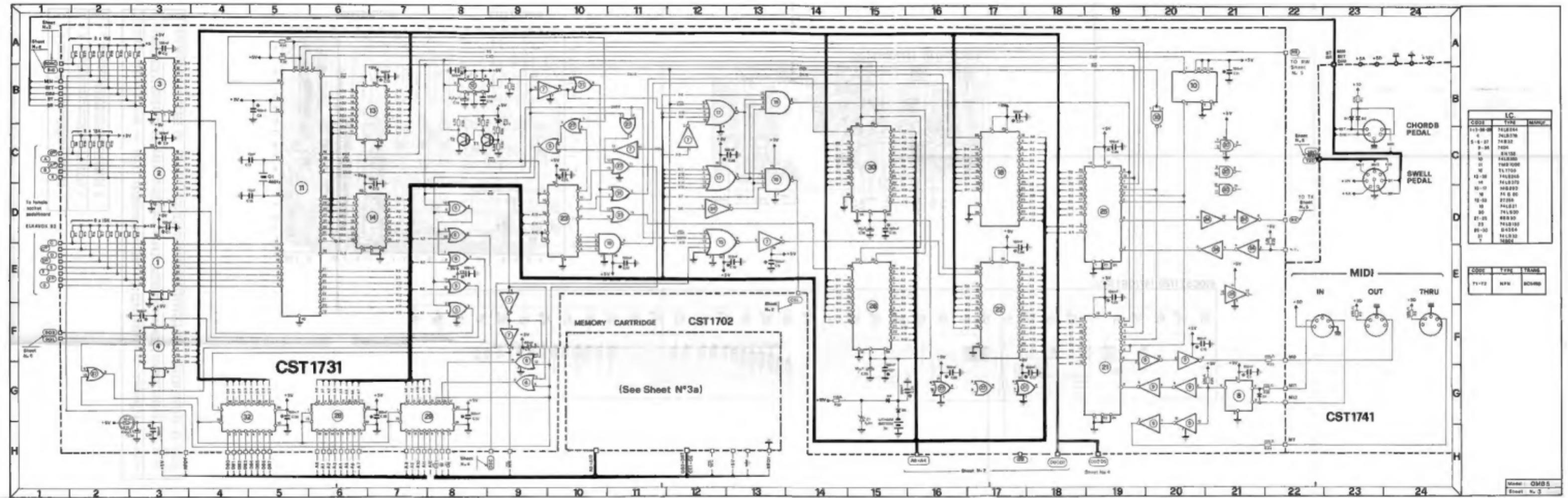
(477GR17060)

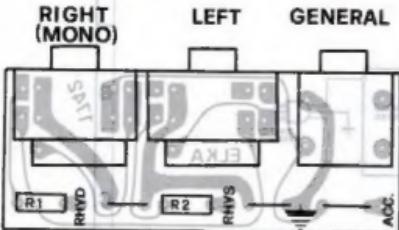
(SWITCHES SIDE)



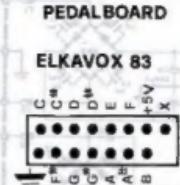
CST1725 - CST1740 (SEE SHEET N. 4a)







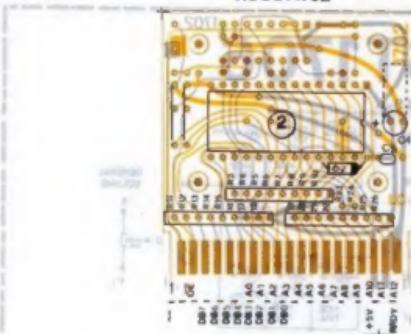
(477GR17420)



(Solders Side)

#

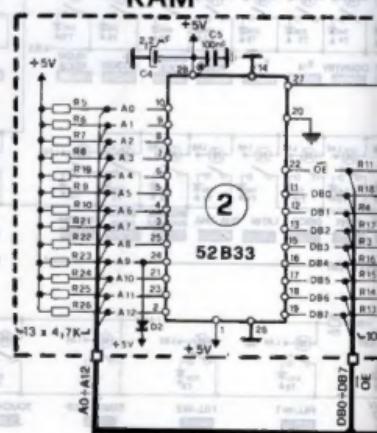
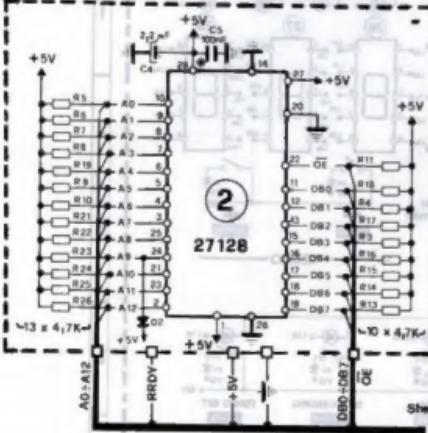
(477GR1702)
410CST1702



CARTRIDGE

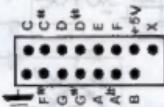
ROM

CST1702



PEDALBOARD

ELKAVOX 83



(Solders Side)

TUNING

1

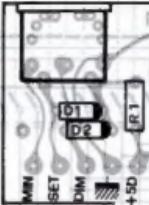


F000504

(Solders Side)

(477 GR 05044)

410CST1741

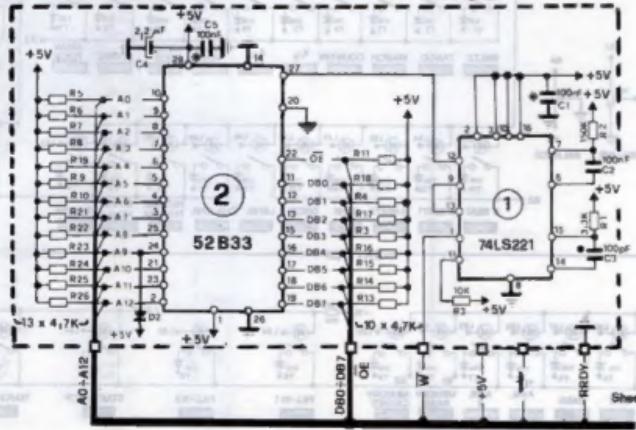


CHORDS PEDAL

CARTRIDGE

RAM

CST 1702



410CST1741

CHORDS
PEDAL

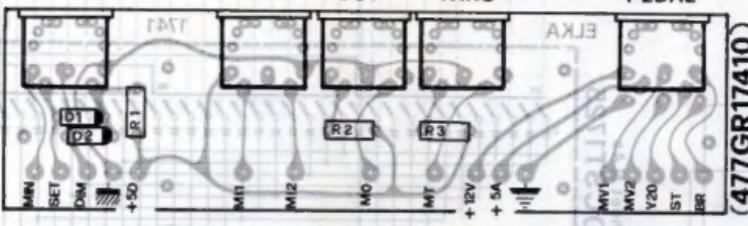
MIDI

IN

OUT

THRU

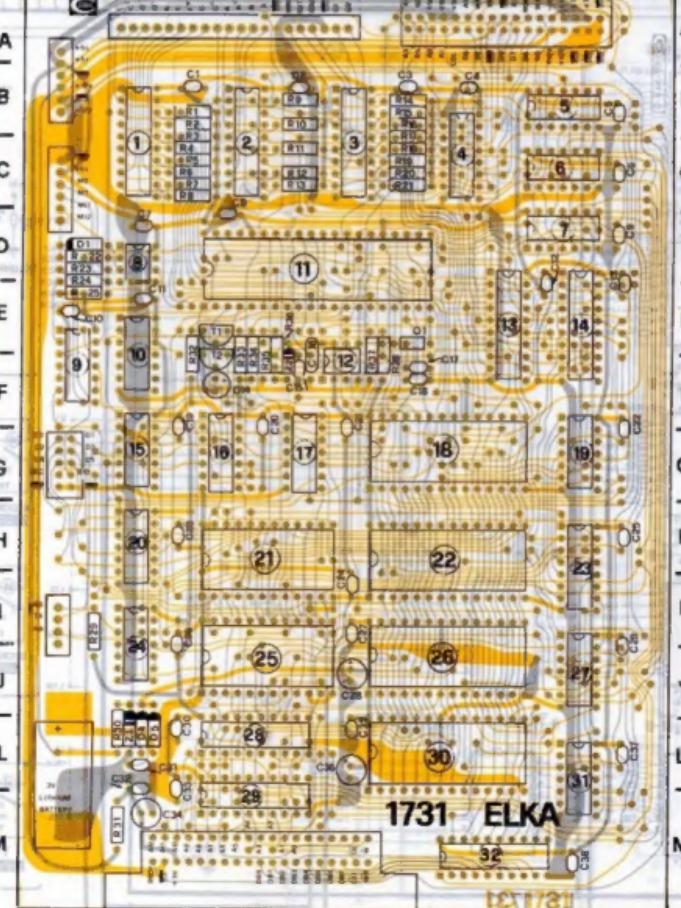
SWELL
PEDAL



410CST1731

(477GR17310)

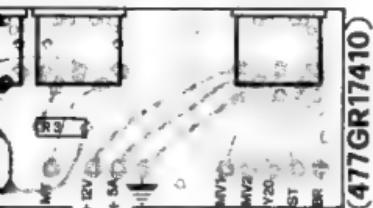
1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9



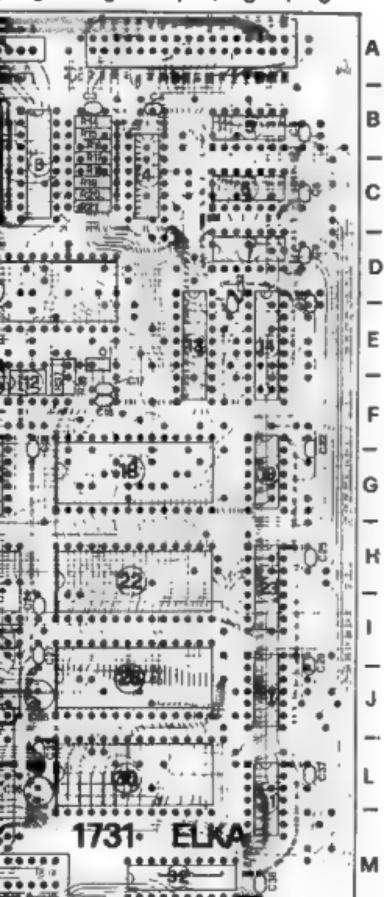
THRU

SWELL
PEDAL

(477GR17410)



(477GR17310)

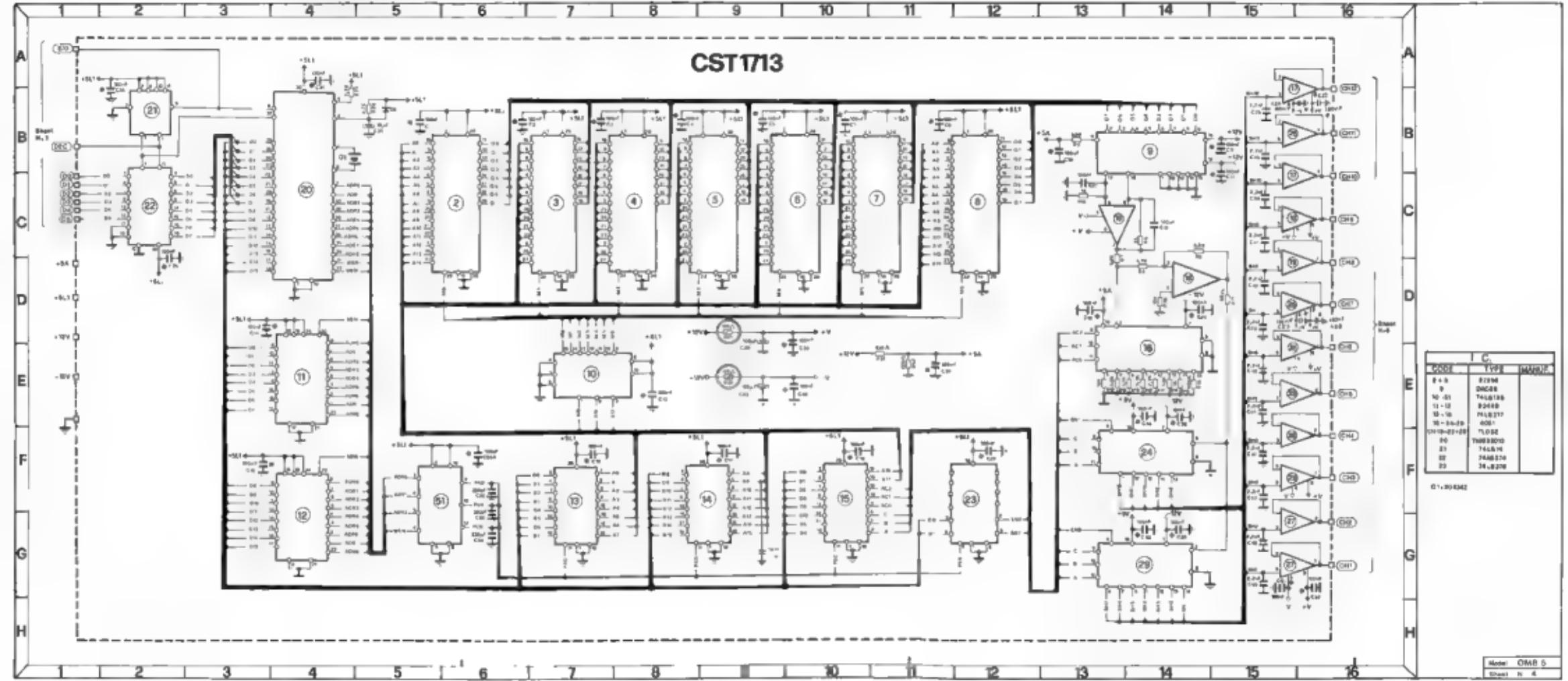


1731 ELKA

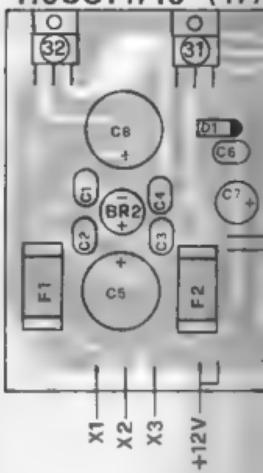
COMP.	S. D.	P. B.
R1	D2	B3
R2	D3	B3
R3	D2	B3
R4	D2	C3
R5	D2	C3
R6	D2	C3
R7	D2	C3
R8	D2	C3
R9	C2	B4
R10	C2	B4
R11	C2	C4
R12	C2	C4
R13	C2	C4
R14	A2	B6
R15	A3	B6
R16	A2	B6
R17	A2	B6
R18	A2	C6
R19	A2	C6
R20	A2	C6
R21	A2	C6
R22	F22	D1
R23	F22	D1
R24	H22	D1
R25	H21	E1
R26	D22	I2
R30	G14	L2
R31	H2	M2
R32	A1	F2
R33	B9	F3
R34	A5	F4
R35	C9	F4
R36	C9	F4
R37	B9	F5
R38	B9	F5
C1	D5	B3
C2	C3	B4
C3	A2	B5
C4	F5	B7
C5	B5	B9
C6	F8	C9
C7	G81	D2
C8	B5	D3
C9	E13	D8
C10	F20	E1
C11	B21	E2
C12	B7	E8
C13	C7	E9
C14	B8	F3
C15	B8	F4
C16	B8	F8
C17	C5	F8
C18	D6	F8
C19	E13	G3
C20	C13	G4
C21	B17	G5
C22	F17	G9
C23	E19	H3
C24	E17	I5
C25	C10	H8
C26	C19	I3
C27	G15	I5
C28	G15	J5
C29	G16	I9
C30	G7	L3
C31	G16	L2
C32	H3	L2
C33	G8	L3
C34	H3	M2
C35	D15	L5
C36	D15	L5
C37	G18	L9
C38	G5	M8
D1	G21	D1
D4	G15	L2
D5	G15	L2
Z1	G15	L2
Z2	B9	F4
G1	C8	E6
T1	C8	E3
T2	C8	F3

COMP.	S. D.	P. B.
IC1	E1	C2
IC2	C3	C4
IC3	B3	C5
IC4	F3	C7
IC5	D8	B8
IC6	D8	C8
IC7	E9	D8
IC8	G21	D2
IC9	G20	F1
IC10	F2	F2
IC11	D5	D4
IC12	B8	F8
IC13	B7	F7
IC14	D7	E8
IC15	D12	G2
IC16	B16	G3
IC17	B12	G4
IC18	C17	G5
IC19	D11	G8
IC20	C21	H2
IC21	F19	H4
IC22	E17	H6
IC23	D10	H8
IC24	D21	J2
IC25	D19	J4
IC26	E15	J8
IC27	G2	J8
IC28	G8	L4
IC29	G7	M4
IC30	C15	L6
IC31	D11	L8
IC32	G8	M7
LITHIUM BATTERY 3V		Q15
L1		

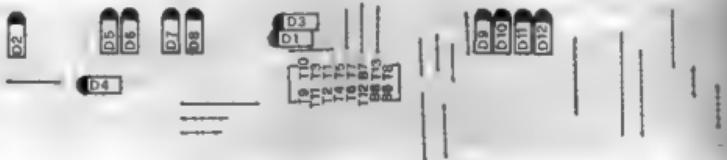
CST1713



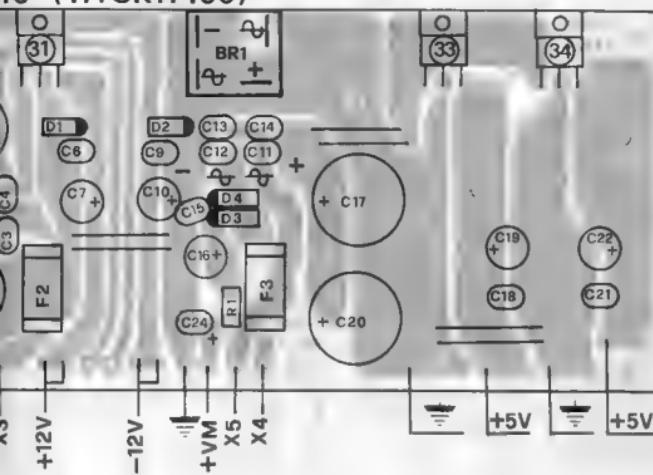
410CST1740 (477)



410CST1725 (477GR17250)

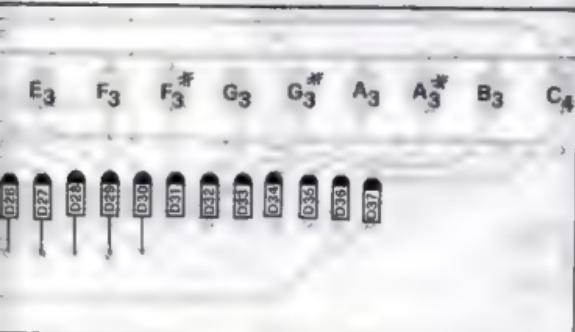
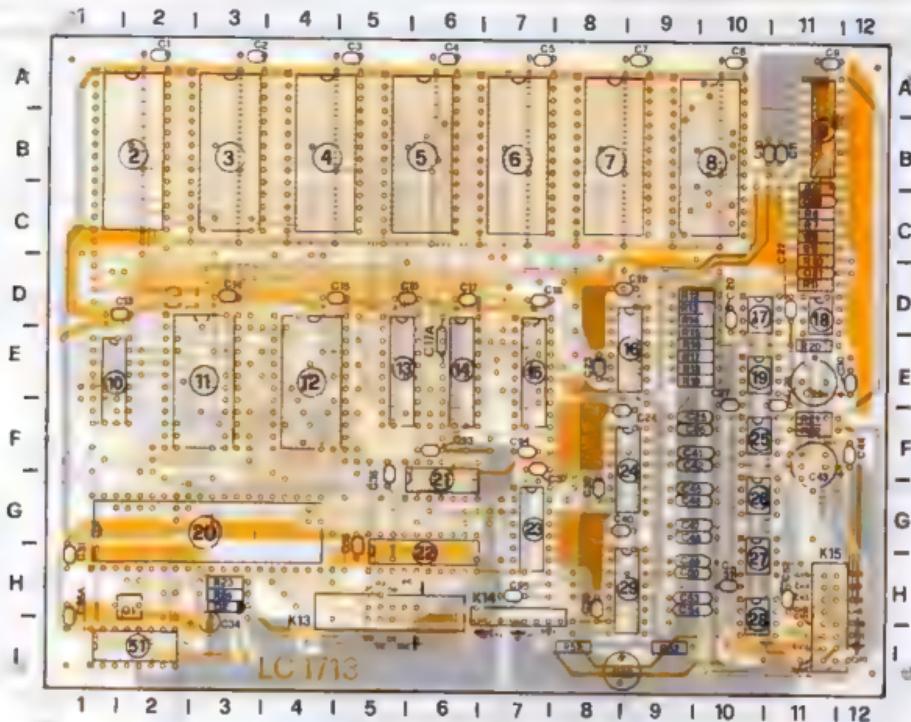


40 (477GR17400)



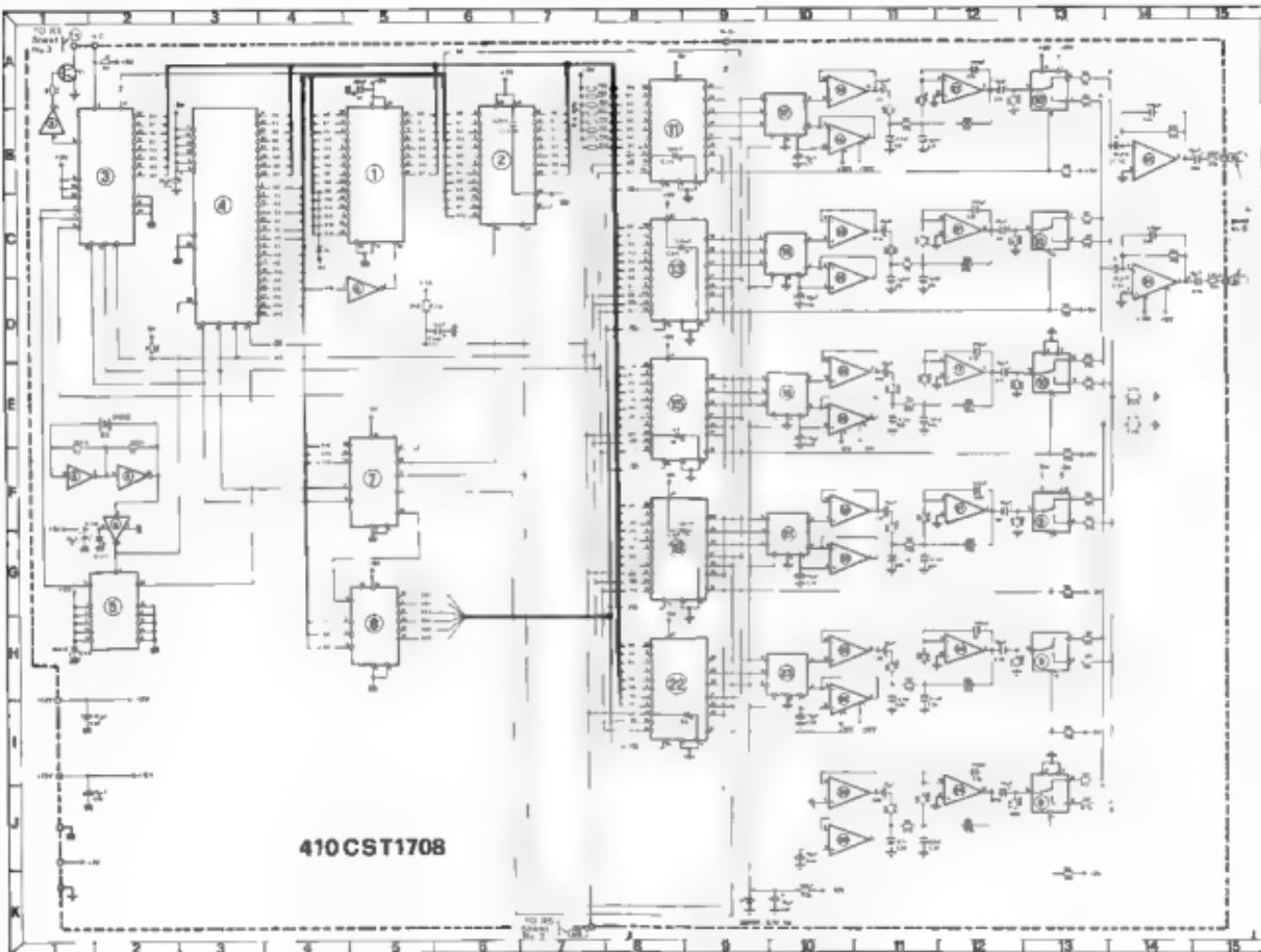
410CST1713

(477GR17130)





COMP.	S. D.	P. B.	COMP.	S.D.	P. B.
R5	B13	C11	D2	B5	H3
R6	C14	C11	Q1	B4	H2
R7	D13	C11	IC2	C6	B2
R8	D14	C11	IC3	C7	B3
R9	C14	C11	IC4	C8	B4
R10	C13	D11	IC5	C9	B6
R11	D15	D11	IC6	C10	B7
R12	E14	D9	IC7	C11	B8
R13	E13	D9	IC8	C12	B10
R14	E14	D9	IC9	B14	B11
R15	E14	E9	IC10	E7	E1
R16	E14	E9	IC11	E4	E3
R17	E14	E9	IC12	G4	E4
R18	E13	E9	IC13	F7	E5
R19	E14	E9	IC14	F9	E6
R20	D14	E11	IC15	F10	E7
R21	D9	F11	IC16	E14	E9
R22	E9	F11	IC17	B15	D10
R23	B4	H3	IC18	D14	D11
R24	B5	H3	IC19	C15	E10
R51	E11	I8	IC20	C4	G3
R52	E11	I9	IC21	B2	G6
C1	B5	A2	IC22	C2	H6
C2	B6	A3	IC23	F12	G7
C3	B7	A5	IC24	F14	F9
C4	B8	A6	IC25	D15	F10
C5	B9	A7	IC26	E15	G10
C7	B10	A8	IC27	G15	H10
C8	B11	A10	IC28	F15	H10
C9	B15	A11	IC29	G14	H9
C10	B13	B10	IC51	F5	I2
C11	C15	B11			
C12	C14	C11			
C13	E8	D1			
C14	D3	D3			
C15	F3	D4			
C16	F7	D5			
C17	F9	D6			
C18	F10	D7			
C19	D13	D8			
C20	B16	D10			
C21	C13	D11			
C22	B16	D11			
C23	D14	E8			
C24	E14	F8			
C25	B15	F9			
C26	C15	F9			
C27	D16	F10			
C28	D16	F11			
C29	D9	E11			
C30	D10	E12			
C31	A4	H1			
C32	B5	H2			
C33	B5	H2			
C34	B5	I3			
C35	D2	G5			
C36	B2	G5			
C37	F12	F7			
C38	E14	G8			
C39	G14	H8			
C40	G14	G8			
C41	C15	F9			
C42	D15	F9			
C43	E9	F11			
C44	E10	F12			
C45	B15	G9			
C46	D15	G8			
C47	F15	G9			
C48	E15	G9			
C49	G15	H9			
C50	G15	H9			
C51	G15	H10			
C52	G16	H11			
C53	F15	H9			
C54	E15	H9			
C66	B2	G7			
C67	A3	G7			
C92	E11	I8			
C93	F6	F6			
C94	G6	F7			
C95	F6	H7			
C96A	F6	I1			

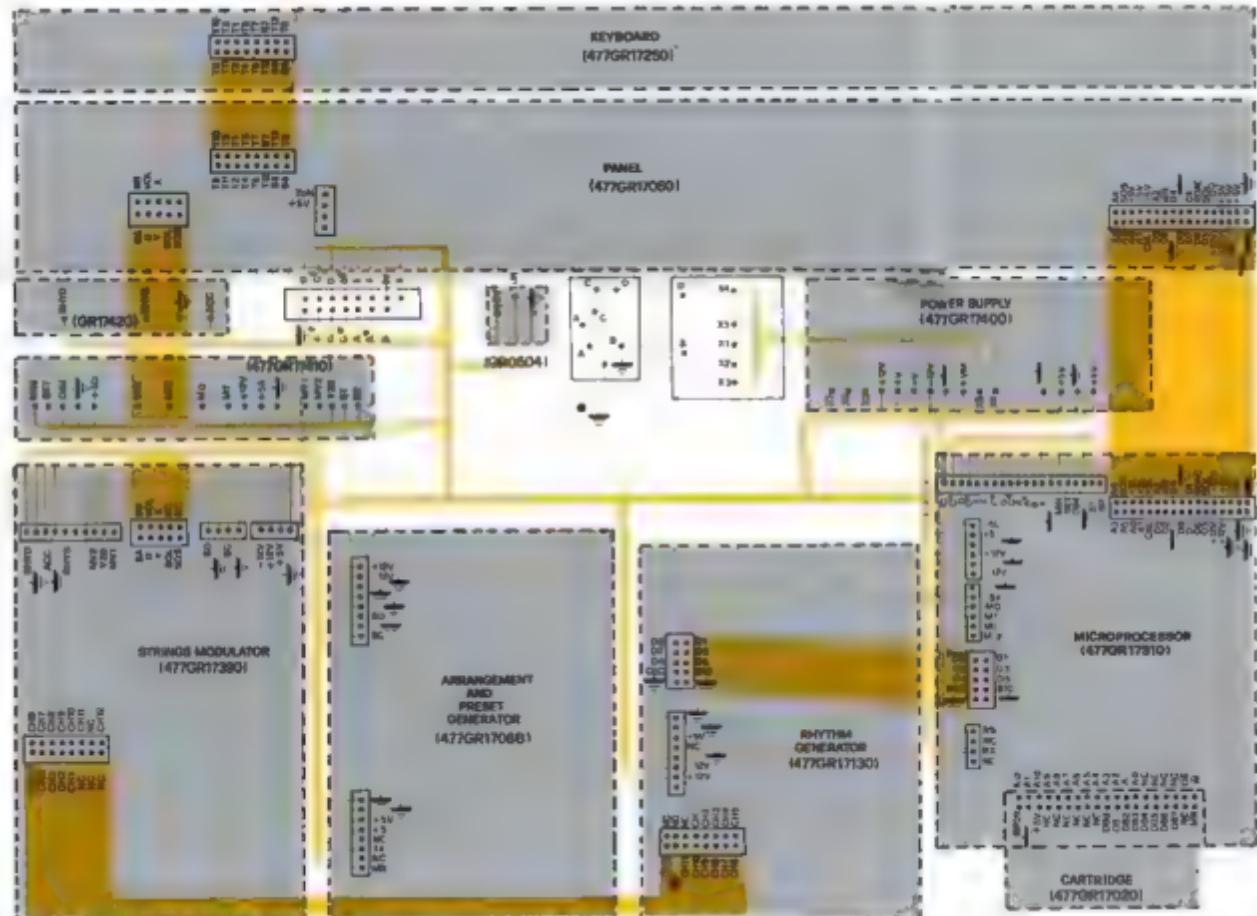


410 CST1708

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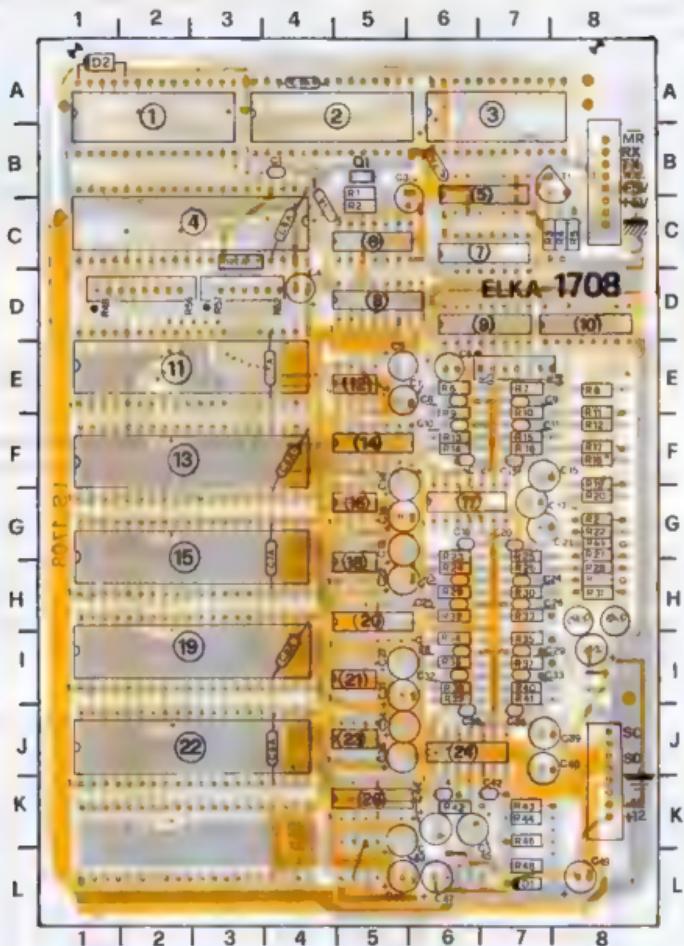
NAME	TYPE	STATUS
John	Adult	Male

WIRING CONNECTION DIAGRAM



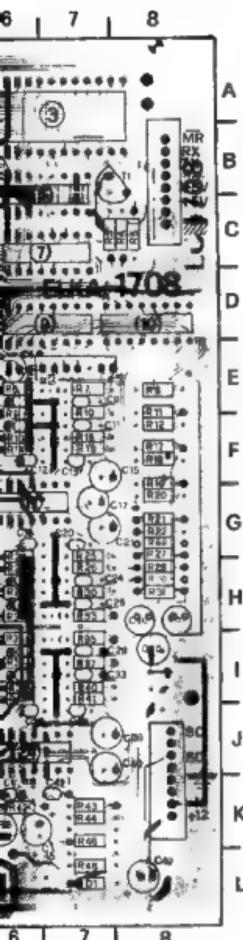
410CST1708

(477GR1708)



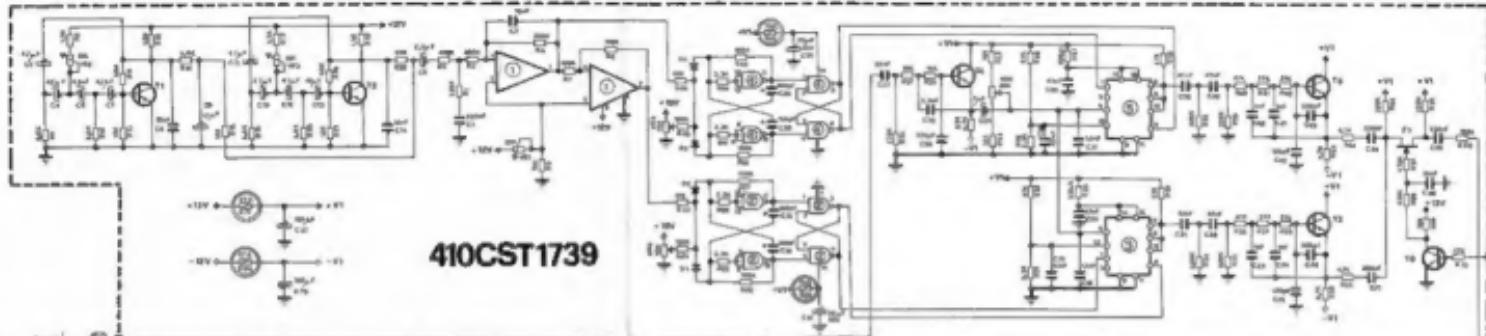
R1	F2
R2	F1
R3	A1
R4	A2
R5	D2
R6	C11
R7	B11
R8	A13
R9	C11
R10	B11
R11	A13
R12	C13
R13	C12
R14	C11
R15	B12
R16	A11
R17	C13
R18	E13
R19	E13
R20	F13
R21	F13
R22	H13
R23	E11
R24	E12
R25	F11
R26	G12
R27	H13
R28	J13
R29	E11
R30	G11
R31	I13
R32	E11
R33	F11
R34	J11
R35	H11
R36	J11
R37	H11
R38	J12
R39	J11
R40	H12
R41	H11
R42	B14
R43	C14
R44	D15
R46	B15
R48	K10
R49	B7
R50	B7
R51	B7
R52	B7
R53	B7
R54	A7
R55	A7
R56	A7
R57	K13
R58	I13
R59	G13
R60	F13
R61	D13
R62	B13
R63	H12
R64	J12
R65	F12
R66	C12
R67	E12
R68	A12
R69	E14
R70	E14
C1	A5
C3	G1
C4	B3
C5	A11
C6	C12
C7	B2
C8	D11
C9	B11
C10	D11
C11	B11
C12	C12
C13	A12
C14	C11
C15	A12
C16	D10
C17	E12
C18	E11
C19	D12
C20	F12

GR1708

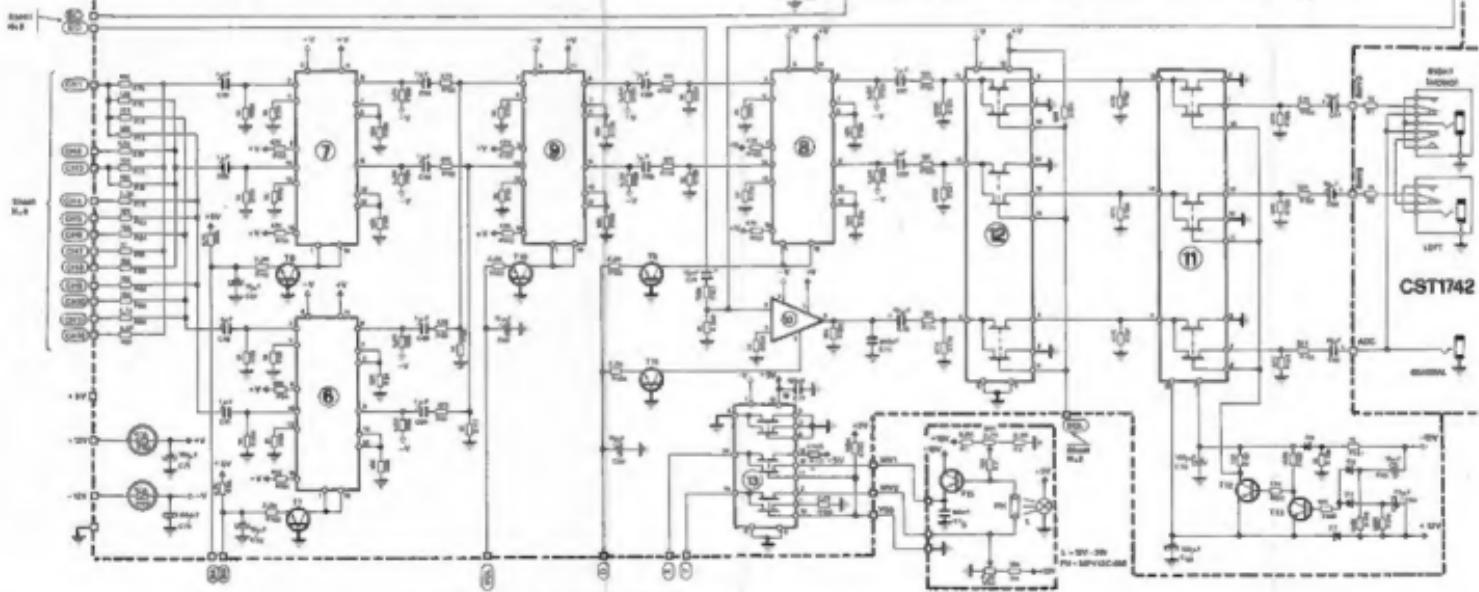


COMP.	S. D.	S. C.
R1	F2	C5
R2	F1	C5
R3	A1	C8
R4	A2	C8
R5	D2	C8
R6	C11	E6
R7	B11	E7
R8	A13	E8
R9	C11	F6
R10	B11	F7
R11	A13	F8
R12	C13	F8
R13	C12	F6
R14	C11	F6
R15	B12	F7
R16	A11	F7
R17	C13	F6
R18	E13	F6
R19	E13	G6
R20	F13	G8
R21	F13	G8
R22	H13	G8
R23	E11	H6
R24	E12	H6
R25	F11	H7
R26	G12	H7
R27	H13	H8
R28	J13	H8
R29	E11	H6
R30	G11	H7
R31	I13	H8
R32	E11	H6
R33	F11	H7
R34	J11	I6
R35	H11	I7
R36	J11	I6
R37	H11	I7
R38	J12	I6
R39	J11	J6
R40	H12	I7
R41	H11	J7
R42	B14	K6
R43	C14	K7
S44	D15	K7
R46	B15	K7
R48	K10	L7
R49	B7	D1
R50	B7	D1
R51	B7	D2
R52	B7	D2
R53	B7	D2
R54	A7	D2
R55	A7	D2
R56	A7	D2
R57	K13	D3
R58	I13	D3
R59	G13	D3
R60	F13	D3
R61	D13	D4
R62	B13	D4
R63	H12	E7
R64	J12	E7
R65	F12	E7
R66	C12	E7
R67	E12	E7
R68	A12	E8
R69	E14	E8
R70	E14	H6
C1	A5	H4
C3	G1	C6
C4	B3	D4
C5	A11	E5
C6	C12	E8
C7	B2	E5
C8	D11	E6
C9	B11	E7
C10	D11	F6
C11	B11	F7
C12	C12	F6
C13	A12	F7
C14	C11	G5
C15	A12	G7
C16	D10	G5
C17	E12	G7
C18	E11	G5
C19	D12	G6
C20	F12	G7

COMP.	S. D.	S. C.
C21	F12	G7
C22	E10	H5
C23	E11	H6
C24	G11	H7
C25	E11	H6
C26	G11	H7
C27	F11	I5
C28	J11	I6
C29	I11	I7
C30	I1	I8
C31	G10	I5
C32	J11	I6
C33	I11	I7
C34	H11	J5
C35	I12	J6
C36	H12	J7
C37	I3	J8
C38	H10	J5
C39	H12	J7
C40	J12	J7
C41	B14	K6
C42	C14	K7
C43	J11	K6
C44	B15	K6
C45	D15	K6
C46	J10	L5
C47	K10	L6
C48	J3	L6
C49	I1	L5
C50	B14	H6
C51	K9	L7
T1	A1	B8
T2	I2	I8
T3	I2	L6
Q1	E2	B5
IC1	B5	A2
IC2	B6	A4
IC3	B2	A7
IC4	C3	C2
IC5	G2	C7
IC6	F2	C5
IC7	F5	C7
IC8	H5	D6
IC9	H13	D7
IC10	C13	D8
IC11	B8	E2
IC12	B10	E5
IC13	C8	F2
IC14	C10	F5
IC15	E8	G2
IC16	C10	G6
IC17	E12	G8
IC18	E10	H5
IC19	G8	I2
IC20	F10	H5
IC21	G10	I5
IC22	H8	J2
IC23	H10	J5
IC24	B14	J6
IC25	J8	K2
IC26	H10	K5
IC27	J10	L5



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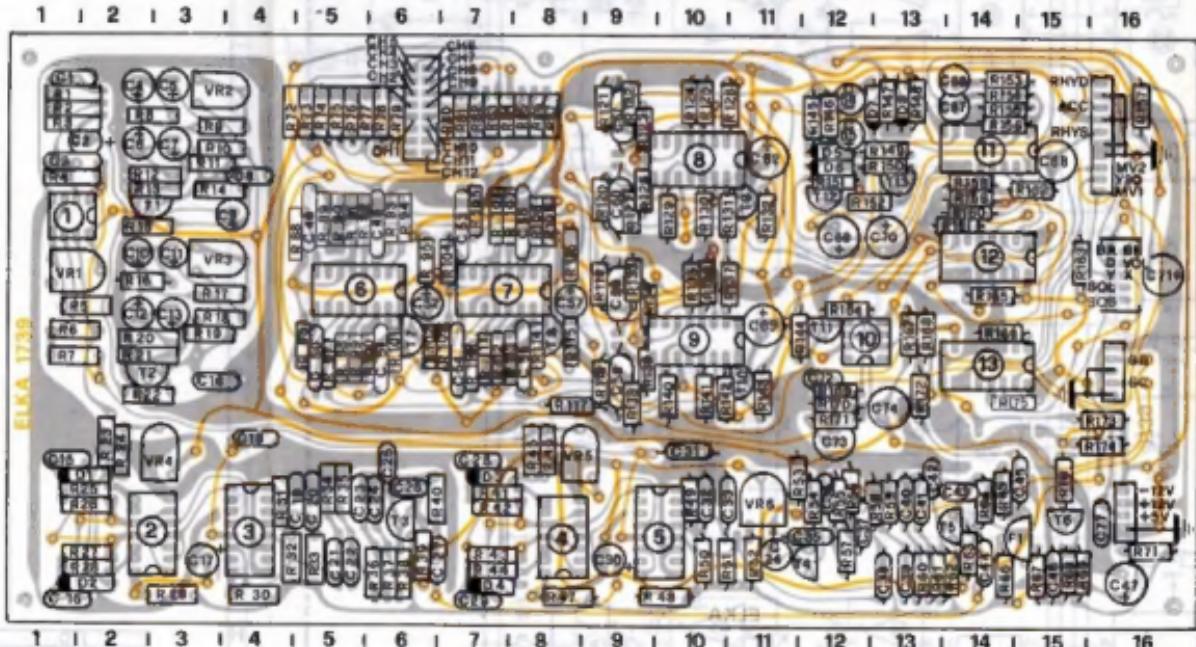
CST1742

I.C.		
1	TL082	4047
2-4	74161	74162
5-6	74163	74164
7	74165	74166
8-10	74167	74168
11-12	74169	74170

I.C.		
11-12	74171	74172
13-14	74173	74174
15	74175	74176
16	74177	74178

410CST1739

(477GR17390)



COMP.	S. D.	R. B.
R1	B5	A1
R2	A5	B1
R3	A5	B1
R4	A6	C1
R5	B6	D2
R6	A6	E1
R7	A6	E1
R8	B1	B2
R9	A2	B3
R10	A2	B3
R11	A2	B3
R12	B2	C3
R13	B2	C3
R14	A3	C3
R15	B3	C2
R16	B3	C2
R17	A3	D3
R18	A4	E3
R19	A4	E3
R20	B4	E2
R21	B4	E2
R22	A5	F2
R23	C7	F2
R24	C7	F2
R25	C7	G2
R26	C8	G2
R27	B8	H2
R28	C7	H2
R29	C8	H3
R30	C11	H4
R31	C10	G4
R32	C10	H4
R33	C11	H8
R34	C12	G5
R35	C12	G5
R36	C12	H6
R37	C12	H5
R38	C13	H6
R39	C13	H6
R40	C13	G7
R41	B7	G7
R42	B8	G7
R43	A8	H7
R44	B7	H7
R45	B7	F8
R46	B7	F8
R47	A8	H8
R48	A11	H10
R49	B10	G10
R50	A10	H10
R51	A11	H11
R52	A10	H11
R53	B10	G12
R54	B10	G12
R55	A9	G12
R56	B9	G12
R57	A8	H12
R58	B12	G13
R59	B12	G13
R60	B12	H13
R61	B12	H14
R62	B13	H14
R63	B13	H14
R64	B13	G14
R65	B14	G14
R66	B13	H14
R67	B14	H15
R68	C14	H15
R69	C14	H16
R70	C14	G15
R71	C9	H16
R72	F2	B4
R73	E2	B5
R74	E2	B5
R75	E2	B5
R76	E2	B5
R77	E2	B5
R78	E2	B6
R80	F2	B7
R81	F2	B7
R82	F2	B7
R83	F2	B7
R84	F2	B7
R85	F2	B8
R86	G2	B8
R87	G2	B8
R88	G5	C5
R89	G5	C5
R90	G5	C5
R91	G5	C5
R92	G4	C5
R93	G3	C6
R94	G4	C6
R95	H3	D6
R96	H5	E5
R97	H5	E5
R98	H5	E5
R100	H3	E8
R101	H4	E8

COMP.	S. D.	P. B.
R102	H4	E8
R103	H3	E7
R104	E5	D7
R105	E5	C7
R106	E5	C7
R107	E4	C8
R108	E3	C8
R109	E4	C8
R110	E5	E7
R111	F5	E7
R112	F4	E7
R113	F3	E8
R114	F4	E8
R115	F3	E8
R116	F3	D9
R117	F7	F7
R118	E7	E8
R119	D7	D9
R120	E10	C8
R121	O10	B9
R122	E10	B9
R123	E9	B9
R124	E9	B10
R125	E8	B10
R126	E8	B11
R127	E10	C9
R128	E9	C8
R129	E9	C10
R130	F8	C10
R131	F8	C11
R132	F7	C11
R133	E7	D8
R134	E7	D10
R135	D7	D10
R136	E6	D10
R137	E6	D11
R138	E7	F9
R139	E7	E9
R140	F7	F10
R141	E8	F10
R142	F6	F11
R143	F8	F11
R144	G7	E12
R145	H14	B12
R146	H13	B12
R147	H13	A13
R148	H13	A13
R149	H13	B13
R150	H13	B13
R151	H12	C12
R152	H13	C13
R153	G13	A4
R154	E9	A14
R155	B13	B14
R156	E13	B14
R157	H2	B16
R158	F13	C14
R159	F11	C14
R160	E11	C14
R161	G11	C14
R162	E13	C15
R163	H16	D16
R164	G8	D12
R165	E11	D14
R166	H9	E14
R167	F8	E13
R168	G8	E13
R169	G9	F12
R170	G10	F12
R171	G10	F12
R172	S14	F13
R173	H2	F16
R174	C3	F16
R175	H6	B3
C1	B5	A1
C2	A5	B2
C3	A6	B1
C4	B1	A2
C5	A1	A3
C6	B2	B2
C7	B2	B3
C8	B2	C4
C9	B3	C4
C10	B3	D2
C11	A3	D3
C12	B4	E2
C13	B4	E3
C14	B4	E3
C15	C8	G1
C16	C8	H1
C17	D8	H3
C18	C11	F4
C19	C10	G5
C20	C11	G5
C21	C12	H5
C22	C12	H5
C23	C12	O5
C24	C12	G6
C25	C13	G6
C26	C13	G6
C27	C13	H7

COMP.	S.D.	P. B.
C28	B8	G7
C29	B8	H7
C30	A8	H8
C31	B11	F10
C32	B10	G10
C33	B11	G11
C34	B10	H11
C35	B9	G12
C36	B9	H12
C37	A9	G13
C38	B12	H13
C39	B12	H13
C40	B12	G13
C41	B12	G13
C42	B13	G14
C43	B13	H14
C44	B13	H11
C45	B14	G15
C46	B14	H15
C47	C3	H16
C48	G5	C5
C49	G3	C6
C50	G5	E5
C51	H3	E6
C52	H3	D6
C53	D5	C7
C54	E5	E7
C55	E3	E8
C56	D3	C8
C57	F3	D8
C58	E7	E9
C59	D7	D7
C60	E8	C8
C61	D9	B9
C62	H7	B11
C63	G6	E11
C64	H14	A12
C65	H14	B12
C66	G13	A14
C67	E13	B14
C68	E13	B15
C69	I12	C12
C70	H12	C13
C71	H3	D18
C72	G9	E12
C73	G9	F12
C74	F8	F13
C75	H3	F14
C76	C9	F15
C77	G6	G16
F1	B14	H15
T1	S2	C2
T2	B4	E2
T3	C13	G6
T4	A10	H12
T5	H3	H14
T6	C14	G15
T7	H4	E6
T8	F4	E8
T9	F7	C11
T10	F10	E11
T11	G7	E12
T12	H12	C12
T13	H13	C13
IC1	B6	C1
IC2	C8	H2
IC3	C11	H4
IC4	B5	H8
IC5	B11	H10
IC6	G4	D5
IC7	E4	D7
IC8	E8	B10
IC9	E6	E10
IC10	G8	E13
IC11	F12	B14
IC12	F10	D14
IC13	H8	E14

Manufactured by **ELKA**